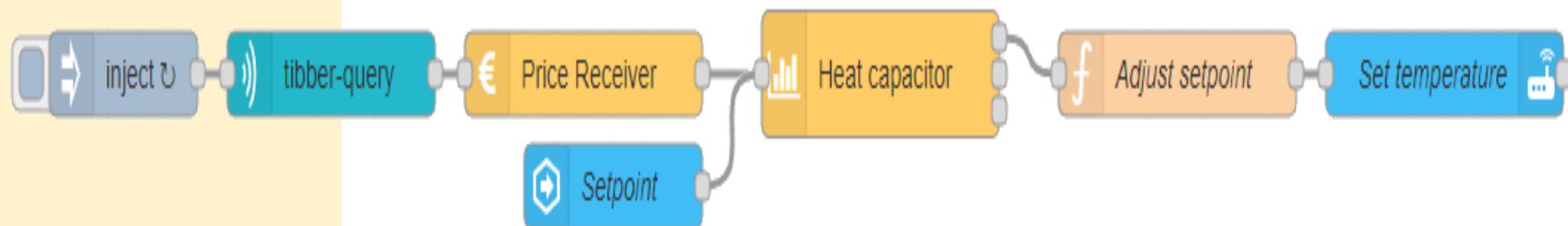


# 大作业：JSON模块提取

```
{  
    "id": "cf5908a52e0aee5e",  
    "type": "ps-receive-price",  
    "z": "135c4e7649611314",  
    "name": "Price Receiver",  
    "x": 400,  
    "y": 320,  
    "wires": [  
        [  
            "b7b85590b7d28ba6"  
        ]  
    ]  
},
```



# 背景知识：NODE-RED

The screenshot shows the Node-RED interface. On the left is the node palette with categories like common, function, and I/O. The main area is the flow editor titled "Flow 1". The right side includes an "info" panel showing the current flow and global configuration nodes.

**Flow 1:**

```
graph LR; timestamp[inject] --> msgpayload[msg.payload]
```

**Timeout Handling:**

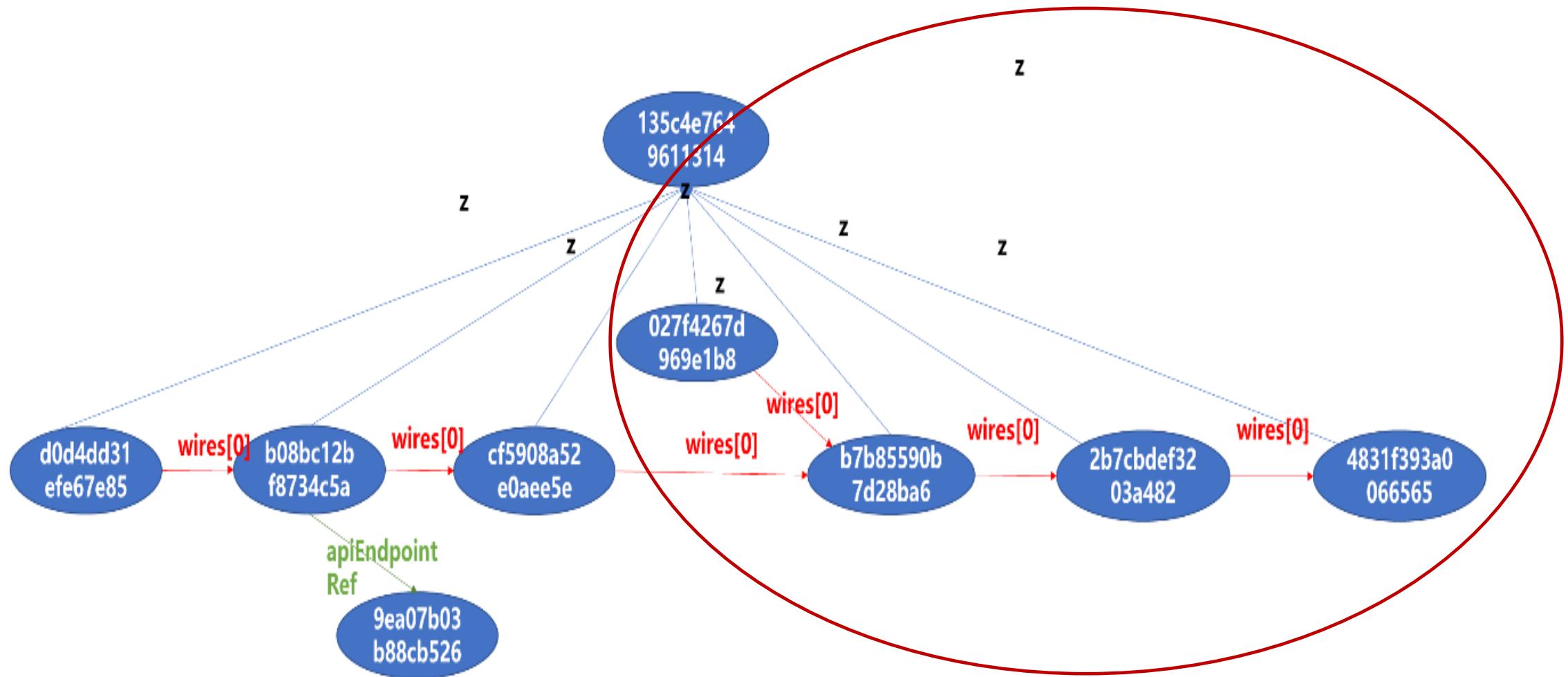
```
graph TD; timestamp[inject] --> trigger[trigger 10s]; trigger --> timeout[Timeout]; timeout --> setreset[Set reset]; setreset --> msgpayload[msg.payload]
```

**Info Panel:**

- Flows:
  - Flow 1 (selected)
  - Subflows
  - Global Configuration Nodes

<https://nodered.org/docs/user-guide/editor/>

# 大作业：JSON模块提取



## 子模块的特点

- 结点数量满足要求
- 结点信息封闭:  $SI \text{ in } S \wedge \forall x: SI | isid(x.property.value, S) \Rightarrow x.property.value \in SI$
- 可以通过 . 操作, 访问子模块中的结点和其属性:  
`b08bc12bf8734c5a.z.type`
- 连通或不连通 (可以自行设定) ——如果不连通, 则子模块数量容易过多